

## 1/1 WPAT - ©Derwent

- AN - 1992-034101 [05]  
 XA - C1992-014825  
 XP - N1992-026053  
**TI** - Bleach bath contg. nitrilo di:acetic mono:propionic acid as chelant - for ferric iron at specified pH, used for bleaching colour photographic silver halide materials  
**DC** - E16 E31 G06 P83  
**PA** - (GEVA ) AGFA-GEVAERT AG  
**IN** - MECKL H; TAPPE G; WICHMANN R  
**NP** - 6  
**NC** - 7  
**PN** - EP-468325 A 19920129 DW1992-05 \*  
 AP: 1991EP-0111713 19910713  
 DSR: BE DE FR GB IT NL  
  
 DE4023817 A 19920130 DW1992-06  
 AP: 1990DE-4023817 19900727  
  
 DE4029805 A 19920326 DW1992-14 16p  
 AP: 1990DE-4029805 19900920  
  
 JP04251845 A 19920908 DW1992-43 G03C-007/42 14p  
 AP: 1991JP-0204577 19910722  
  
 EP-468325 B1 19951122 DW1995-51 G03C-007/42 Ger 21p  
 AP: 1991EP-0111713 19910713  
 DSR: BE DE FR GB IT NL  
  
 DE59106932 G 19960104 DW1996-06 G03C-007/42  
 FD: Based on EP-468325  
 AP: 1991DE-5006932 19910713; 1991EP-0111713 19910713  
**PR** - 1990DE-4029805 19900920; 1990DE-4023817 19900727  
**CT** - EP-270217; EP-293729; US4914008; WO8000624  
**IC** - G03C-007/42 C07C-229/24 C07C-229/76 G03C-005/44  
**AB** - EP-468325 A  
 Bleach bath contains a Fe-III complex, in which at least 20 mole-% chelating agent (I) is nitriliodiacetic-monopropionic acid of formula (HOOC-CH<sub>2</sub>)<sub>2</sub>-N-CH<sub>2</sub>-CH<sub>2</sub>-COOH and is adjusted to a pH between 6.0 and 4.5.  
 At least 80 mol. % of (I) is pref. (IA). The bath pref. contains 1-120 mol. % excess (I). It may contain thiosulphate in an amt. insufficient to fix the undeveloped Ag halide or be free from thiosulphate.  
 USE/ADVANTAGE - The bath environmentally friendly and readily biodegradable. it is used for bleaching all colour photographic Ag halide materials, e.g. colour negative and reversal films and paper.  
 In an example, selectively exposed colour reversal paper was processed by 45 s development at 35 deg.C 22 s washing at under 20 deg.C, 90 s bleaching at 35 deg.C 45 s washing at 30 deg.C, 45 s fixing at 35 deg. C 90 s washing at 30 deg. C and drying. The aq. bleach bath contained, (A,B) 40g/l Fe(NO<sub>3</sub>)<sub>3</sub>.9H<sub>2</sub>O, 25g/l NH<sub>4</sub>Br and 25% NH<sub>3</sub> soln. to (A) pH 5.0 (B) pH 6 or (c) 50 g/l NH<sub>4</sub>-Fe-III EDTA, 5g/l ETDA 80 g/l NH<sub>4</sub>Br and NH<sub>3</sub> soln. or acetic acid to pH 6.0 baths (B, C) being controls. The development and fixing baths were the same in all cases. Samples bleached in (A,C) were free from residual Ag, whereas those bleached in (B) still contained Ag. (Dwg.0/0)  
**MC** - CPI: E05-L02A G06-G11 G06-G16  
**UP** - 1992-05  
**UE** - 1992-06; 1992-14; 1992-43; 1995-51; 1996-06